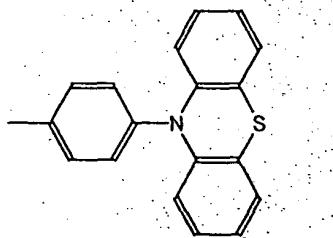
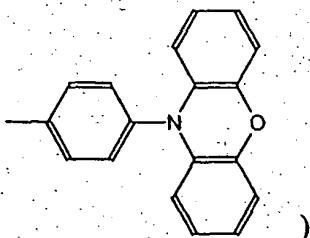
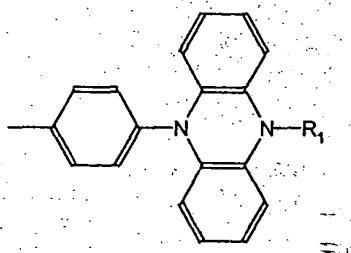
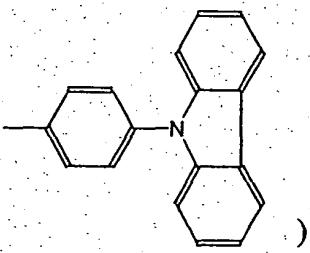
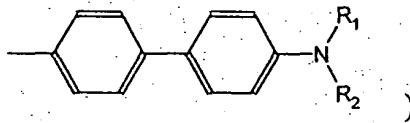
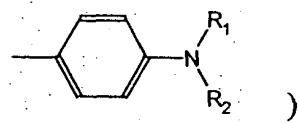


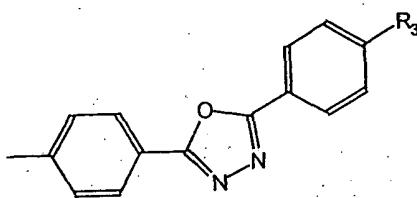
IN THE CLAIMS

1. (Currently Amended) A polyfluorene end-capped with at least one charge-transporting moiety, wherein said charge transporting moiety is a chemical moiety adapted to facilitate the transport of electrons, holes or ions.

2. (Currently Amended) A The polyfluorene according to claim 1, wherein the charge-transporting moiety is selected from the group comprising consisting of electron-transporting moieties, hole-transporting moieties and ion-transporting moieties.

3. (Currently Amended) A The polyfluorene according claim 1, wherein the charge-transporting moiety is selected from the group comprising consisting of:





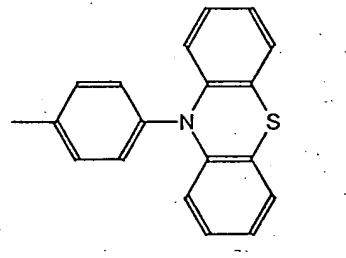
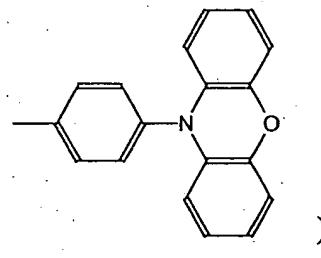
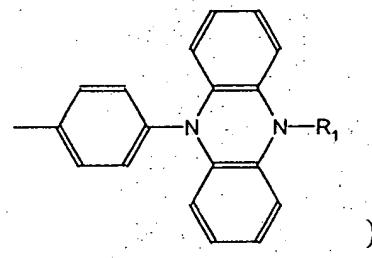
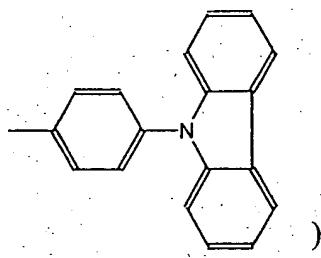
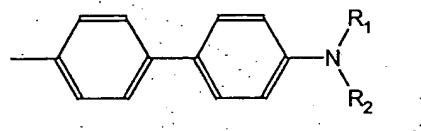
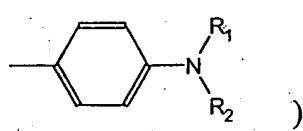
wherein R₁ and R₂ are independently at each occurrence selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylaminoaryl, and

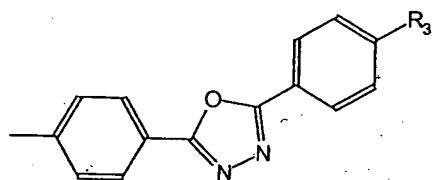
wherein R₃ is independently at each occurrence selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

4. (Currently Amended) A The polyfluorene according to claim 3, wherein R₁ and R₂ are independently at each occurrence selected from the group comprising consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-

methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

5. (Currently Amended) A polyfluorene end-capped with at least one moiety selected from the group comprising consisting of:



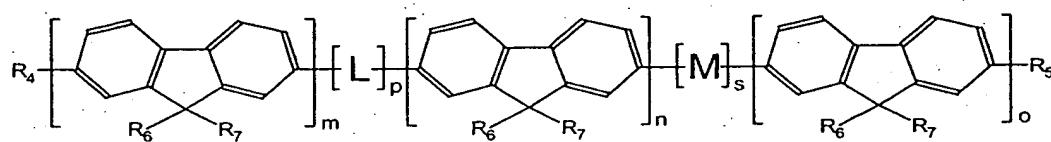


wherein R₁ and R₂ are independently at each occurrence selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylaminoaryl, and

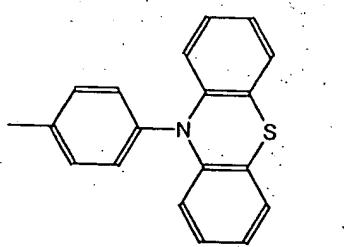
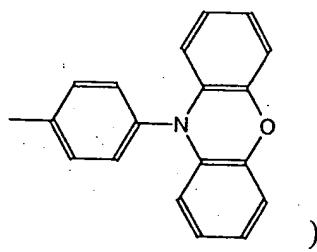
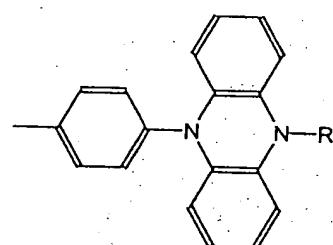
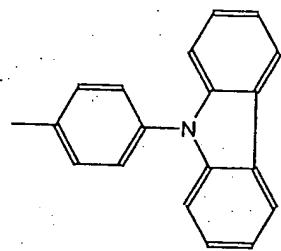
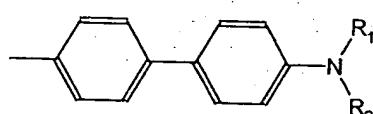
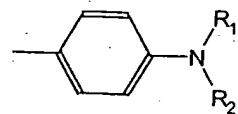
wherein R₃ is independently at each occurrence selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

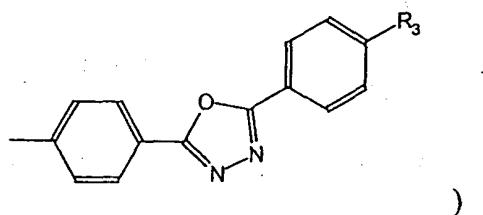
6. (Currently Amended) A The polyfluorene according to claim 5, wherein R₁ and R₂ are independently at each occurrence selected from the group comprising consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

7. (Currently Amended) A polyfluorene having the formula



wherein R₄ and R₅ are independently at each occurrence selected from the group comprising consisting of:





and H

R₁ and R₂ being independently selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl, and substituted diarylaminoaryl.

R₃ being selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, and substituted alkylaryl,

and wherein R₆ and R₇ are independently at each occurrence selected from the group comprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, -(CH₂)_q-(O-CH₂-CH₂)_r-O-CH₃,

q being selected from the range 1 - 10, r being selected from the range 0 - 20,

and wherein L and M are independently at each occurrence selected from the group comprising consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer that can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene,

and wherein $m+n+o \leq 10$, each of m, n, o being independently selected from the range 1 – 1,000,

and wherein p is selected from the range 0-15,

and wherein s is selected from the range 0-15,

with the proviso that, if R₄ is H, R₅ is not H, and if R₅ is H, R₄ is not H.

8. (Currently Amended) A polyfluorene according to claim 7,

wherein m, p, s, o are 0, and

wherein R₄ – R₇ and R₁ – R₃ are as previously defined.

9. (Currently Amended) A The polyfluorene according to claim 7 cross-linked to a polyfluorene according to claim 7 via at least one linkage selected from the group comprising consisting of a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and

an α,ω -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1 – 20 C-atoms.

10. (Currently Amended) A The polyfluorene according to claim 7 which has at least one color-tuning moiety incorporated into the main chain.

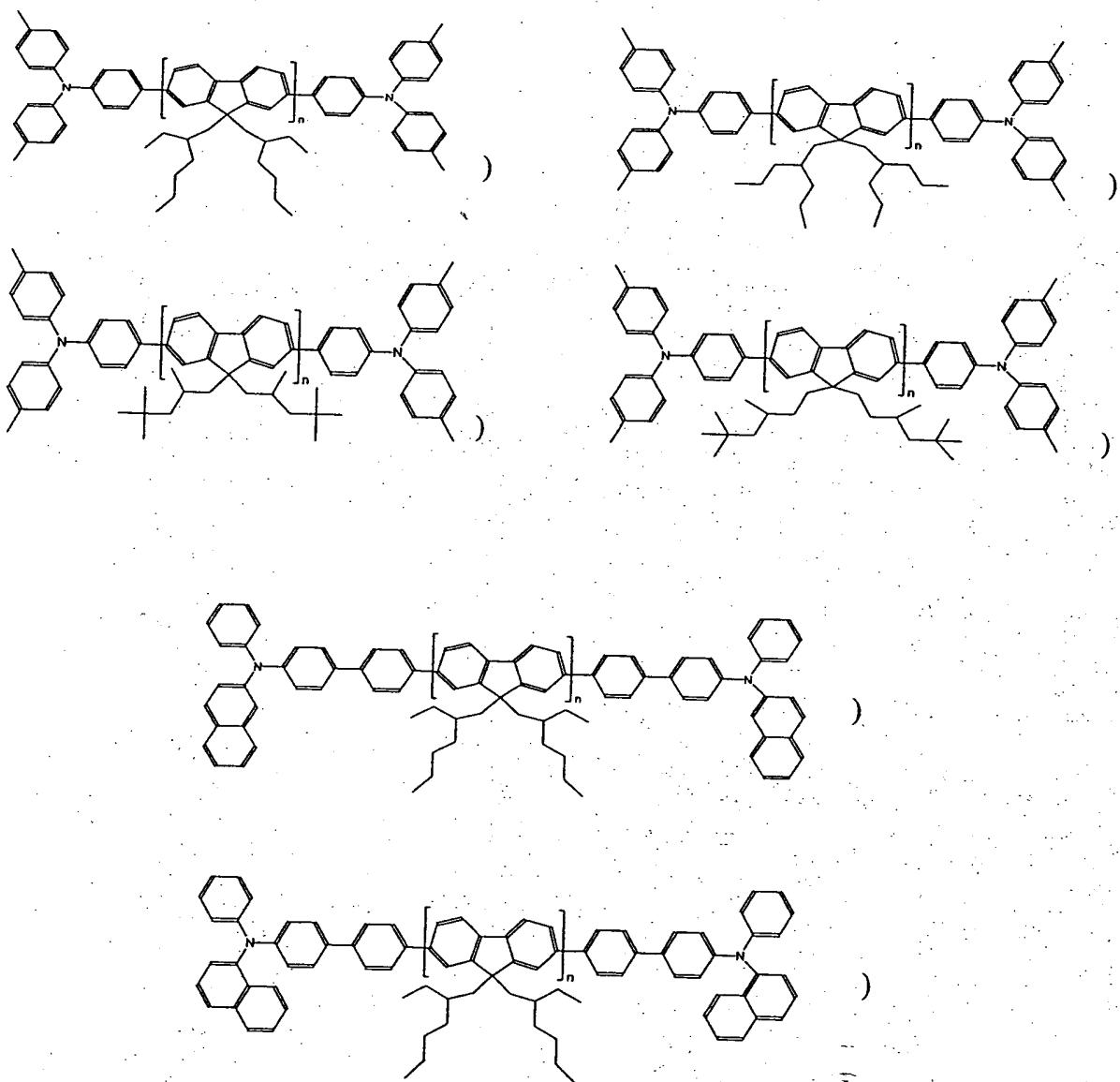
11. (Currently Amended) A The polyfluorene according to claim 10, wherein the color-tuning moiety is selected from the group comprising consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer than can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene.

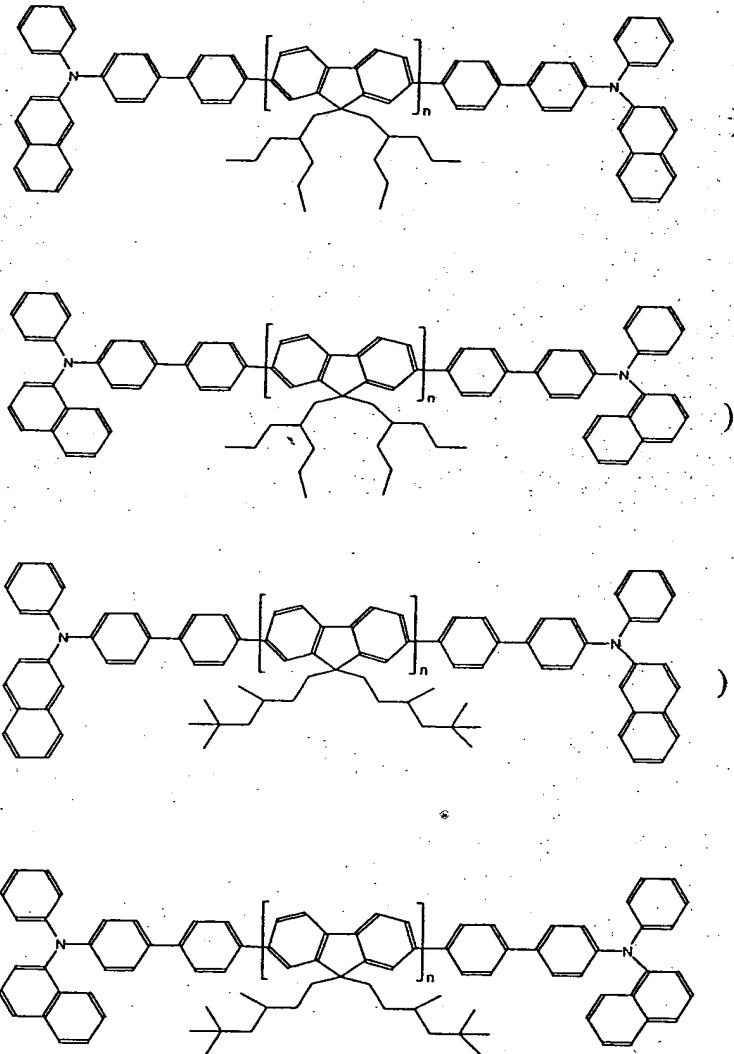
12. (Currently Amended) A The polyfluorene according to claim 7, which wherein the polyfluorene is liquid-crystalline.

13. (Currently Amended) A The polyfluorene according to claim 12, which wherein the polyfluorene is liquid-crystalline at or above 70° C.

14. (Currently Amended) A The polyfluorene according to claim 7, which wherein the polyfluorene is amorphous.

15. (Currently Amended) A polyfluorene selected from the group comprising consisting of:





wherein n is as previously defined.

16. (Currently Amended) A film incorporating comprising a polyfluorene according to claim 15.

17. (Currently Amended) A The film according to claim 16, which wherein the film

is aligned.

18. (Cancelled).

19. (Currently Amended) A film according to claim 18 16 in which said other substance is further comprising at least one other substance selected from the group comprising consisting of fluorescent dyes, hole-transporting moieties, electron-transporting moieties, ion-transporting moieties, phosphorescent dyes, nanoparticles, low molecular weight liquid-crystalline moieties, other liquid-crystalline and/or fluorescent and/or phosphorescent and/or charge-transporting polymers.

20. (Currently Amended) A The film according to claim 16, wherein the film is deposited on an alignment layer.

21. (Currently Amended) A The film according to claim 16, wherein the film has having a thickness ranging from 10 nm to 2 μ m.

22. (Currently Amended) A The device selected from the group comprising consisting of FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to claim 16.

23. (Currently Amended) A The device according to claim 22, incorporating further comprising another polymer.

24. (Currently Amended) ~~A~~ The device according to claim 23, wherein said polymer is a luminescent polymer.

25. (Currently Amended) A device selected from the group ~~comprising~~ consisting of FETs, photovoltaic elements, LEDs and sensors, ~~incorporating further comprising~~ a film according to claim 16.

26. (Currently Amended) ~~Use of a polyfluorene according to claim 1 in a film~~ A film comprising a polyfluorene according to claim 1.

27. (Currently Amended) ~~Use according to claim 26~~ The film according to claim 26, wherein the film is an emission layer.

28. (Currently Amended) ~~Use of a polyfluorene according to claim 1 in a device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors~~ A device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, comprising a polyfluorene according to claim 1.

29. (Cancelled).

30. (Currently Amended) ~~Use of a device according to claim 22 in combination with a liquid crystal display (LCD)~~ The device according to claim 25, further comprising a liquid-crystal display.